

$^{45}\text{Sc}(\mu^-, \text{n}\gamma)$  **1971Ba10**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen, Balraj Singh and John A. Cameron		NDS 112, 2357 (2011)	31-Jul-2011

**1971Ba10:** Muons produced at the muon channel of the CERN synchrocyclotron. Ge(Li) detectors for detecting  $\gamma$ -rays. Measured  $E\gamma$ ,  $I\gamma$ . Deduced levels, transitions.

 $^{44}\text{Ca}$  Levels

$E(\text{level})^\dagger$	$J^\pi{}^\ddagger$
0.0	$0^+$
1155.9 5	$2^+$
2280.0 9	$4^+$
2666 10	$2^+$

$J^\pi$ : 1971Ba10 quote  $2^-$ .

$^\dagger$  From least-square fit to  $E\gamma$  data.

$^\ddagger$  From Adopted Levels.

 $\gamma(^{44}\text{Ca})$ 

$E_\gamma^\dagger$	$I_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Comments
1124.1 7	38 7	2280.0	$4^+$	1155.9	$2^+$	$E_\gamma$ : 1126.076 10 (for electronic atom).
1155.9 5	61 6	1155.9	$2^+$	0.0	$0^+$	$E_\gamma$ : 1157.020 15 (for electronic atom).
1510 10	<5	2666	$2^+$	1155.9	$2^+$	

$^\dagger$  Observed  $E\gamma$  data in the muonic atom.  $E\gamma$  data for the electronic atom (as in Adopted Gammas) are given under comments.

